IN THE CLAIMS:

Please cancel claims 3, 4, 7-12 and 15-18 without prejudice or disclaimer.

Please amend claims 5, 6, 13 and 14 as follows:

Claims 1-4. (Cancelled)

Claim 5. (Currently Amended) A plasma resistant seal comprising

a plasma seal made entirely of a material provided with a plasma resisting performance, the plasma seal being provided in a plasma irradiating side of a packing made of a rubber-like elastic material and serving as a main seal,

said plasma seal being made entirely of polyterafluoroethylene and said packing being an O-ring,

~~wherein~~ a plasma seal installation groove~~, which is~~ shallower than a depth of a packing installation groove provided in an installation member, ~~is~~ and being next to a plasma irradiation side of said packing installation groove;

~~wherein~~ the packing ~~is~~ being attached to said packing installation groove; and

~~wherein~~ the plasma seal~~, which has~~ having an arch cross sectional shape with ~~its conclave~~ a concave surface facing a bottom surface of said plasma seal installation groove, ~~is~~ being attached to said plasma seal installation groove in a compressed state~~;~~ so that the packing is prevented from protruding into a gap ~~at the~~ extending from a plasma irradiation direction.

Claim 6. (Currently Amended) A plasma resistant seal comprising

a plasma seal made entirely of a material provided with a plasma resisting performance, the plasma seal being provided in a plasma irradiating side of a packing made of a rubber-like elastic material and serving as a main seal,

said plasma seal being made entirely of polyterafluoroethylene and said packing being an O-ring,

~~wherein~~ the packing ~~is~~ being attached to a packing installation groove provided in an installation member, and the plasma seal ~~is~~ being attached to a plasma irradiation side of the ~~same~~ installation groove in a compressed state;

~~wherein~~ the plasma seal ~~has~~ having an arch cross sectional shape with ~~its conclave~~ a concave surface engaging the packing and ~~its~~ having a convex

surface engaging the plasma irradiation side of the packing installation groove~~;~~, and

~~wherein~~ the convex and ~~conclave~~ concave surfaces of the plasma seal ~~are~~ being arranged along a direction generally orthogonal to a plasma irradiation direction~~;~~ so that the packing is prevented from protruding into a gap ~~at~~ extending from the plasma irradiation direction.

Claims 7-12. (Cancelled)

Claim 13. (Currently Amended) An apparatus for manufacturing a semiconductor device by irradiating plasma ~~with~~ using a plasma resistant seal, said plasma resistant seal comprising a plasma seal made entirely of a material provided with a plasma resisting performance, the plasma seal being provided in a plasma irradiating side of a packing made of a rubber-like elastic material and serving as a main seal,

said plasma seal being made entirely of polyterafluoroethylene and said packing being an O-ring,

~~wherein~~ a plasma seal installation groove~~, which is~~ shallower than a depth of a packing installation groove provided in an installation member, ~~is~~

and being next to a plasma irradiation side of said packing installation groove;

~~wherein~~ the packing ~~is~~ being attached to said packing installation groove; and

~~wherein~~ the plasma seal~~, which has~~ having an arch cross sectional shape with ~~its conclave~~ a concave surface facing a bottom surface of said plasma seal installation groove, ~~is~~ being attached to said plasma seal installation groove in a compressed state~~;~~ so that the packing is prevented from protruding into a gap ~~at the~~ extending from a plasma irradiation direction.

Claim 14. (Currently Amended) An apparatus for manufacturing a semiconductor device by irradiating plasma with using a plasma resistant seal, said plasma resistant seal comprising a plasma seal made entirely of a material provided with a plasma resisting performance, the plasma seal being provided in a plasma irradiating side of a packing made of a rubber-like elastic material and serving as a main seal,

said plasma seal being made entirely of polyterafluoroethylene and said packing being an O-ring,

~~wherein~~ the packing ~~is~~ being attached to a packing installation groove provided in an installation member, and the plasma seal ~~is~~ being attached to a plasma irradiation side of ~~the~~ a same installation groove in a compressed state~~;~~,

~~wherein~~ the plasma seal ~~has~~ having an arch cross sectional shape with ~~its conclave~~ a concave surface engaging the packing and ~~its~~ a convex surface engaging the plasma irradiation side of the packing installation groove~~;~~, and

~~wherein~~ the convex and ~~conclave~~ concave surfaces of the plasma seal ~~are~~ being arranged along a direction generally orthogonal to a plasma irradiation direction~~;~~ so that the packing is prevented from protruding into a gap ~~at~~ extending from the plasma irradiation direction.

Claims 15-18. (Cancelled)